BRACKETS and EQUATIONS

A: I can multiply terms

$8p \times 3p$, $(2a)^3$, $(-5x)^2$

B: I can multiply a bracket by a variable

$4(x+3)$, $x(x+2)$, $3p(2p-1)$,
$-7(2r-3)$, $8z(2xy+3x)$,

C: I can expand brackets and simplify

$3(x+2)+4(x-1)$
$x(x+2)+5x-7$
$-a(2a+1)-3a^2+4a$

D: I can multiply out pairs of brackets

$(x+2)(x+5)$
$(3x+1)(x+2)$
$(2x+3)(x-1)$
$(4x-3)(3x-2)$

E: I can square brackets

$(x+2)^2$, $(x-3)^2$, $(2x+1)^2$

F: I can apply the above to more complex expressions

$5(x+2)(x+1)$
$2(x+3)^2$, $3(a-b)(2a+b)$,
$(5+w)(2w-3)$,
$(x+2)(x+1)^2$
$(x+2)(2x^2+3x+5)$

G: I can solve equations with brackets

$(x+2)^2 = x^2 + 18$
$(x-1)^2 = (x+3)^2$

H: I can solve problems using algebra

Form an equation to find the value of x.